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⑤④ Nucleotide sequence coding for an outer membrane protein from *Neisseria meningitidis* and use of said protein in vaccine preparations.

⑤⑦ The present invention is concerned with a method for the isolation of a nucleotide sequence which codes for a protein having a molecular weight of about 64 000 daltons, which is located on the outer membrane of *N. meningitidis*, as well as with the recombinant DNA obtained therefrom, which is used for the transformation of a host microorganism. The technical object pursued with the invention is the identification of a nucleotide sequence coding for a highly conserved and common protein for the majority of pathogenic *Neisseria* strains, the production of this protein with a high level of purity and in commercially useful amounts using the recombinant way, so that it can be used in diagnostic methods and vaccine preparations with a broad immunoprotection spectrum.

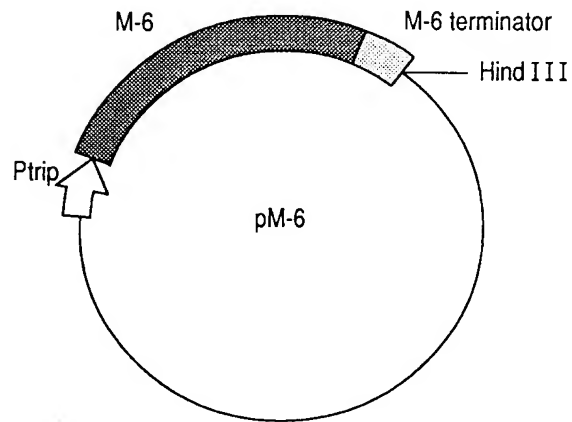


FIG. 1



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## EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
D,A	EP-A-0 301 992 (CENTRO NACIONAL DE BIOPREPARADOS) * the whole document * ---	1-22	C12N15/31 A61K39/095 C12P21/08 C12N15/62 C12N15/53 C12N15/54 A61K39/295 C12N1/21 /(C12N1/21, C12R1:19) C07K15/00 C12N9/02 C12N9/10
D,A	INFECTION AND IMMUNITY. vol. 54, no. 3, December 1986, WASHINGTON US pages 710 - 713 J. R. BLACK ET AL 'Human immune response to iron-repressible outer membrane proteins of Neisseria meningitidis' * the whole article especially page 712 right column and page 713 * ---	1-22	
A	EP-A-0 117 783 (MERCK & CO. INC.) * claims * ---	1-22	
D,A	EUROPEAN JOURNAL OF BIOCHEMISTRY vol. 133, no. 3, 1 July 1983, pages 481 - 489 P. E. STEPHENS ET AL 'The pyruvate dehydrogenase complex of Escherichia coli K12' * the whole document * -----	7	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C07K C12N A61K
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 NOVEMBER 1992	Examiner LE CORNEC N.D.R.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	